

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –  
Part 37-013: Alternating current generator circuit-breakers

CORRIGENDUM 1

**D.4.2 Asymmetrical generator-source short-circuit breaking current**

*Replace the first formula in this subclause by the following:*

$$I_{\text{gen asym}} = \frac{\sqrt{2}U_{\text{mG}}S_{\text{rG}}}{\sqrt{3}U_{\text{rG}}^2} \left\{ \left[ \left( \frac{1}{x''_{\text{d}}} - \frac{1}{x'_{\text{d}}} \right) e^{-t/\tau''_{\text{d}}} + \left( \frac{1}{x'_{\text{d}}} - \frac{1}{x_{\text{d}}} \right) e^{-t/\tau'_{\text{d}}} + \frac{1}{x_{\text{d}}} \right] \cos(\omega t) \right\} \\ - \frac{\sqrt{2}U_{\text{mG}}S_{\text{rG}}}{\sqrt{3}U_{\text{rG}}^2} \left[ \frac{1}{2} \left( \frac{1}{x''_{\text{d}}} + \frac{1}{x''_{\text{q}}} \right) e^{-t/\tau_{\text{a}}} + \frac{1}{2} \left( \frac{1}{x''_{\text{d}}} - \frac{1}{x''_{\text{q}}} \right) e^{-t/\tau_{\text{a}}} \cos(2\omega t) \right]$$